

# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

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May 26, 1989

**RECEIVED**  
MAY 30 1989  
DIVISION OF  
OIL, GAS & MINING

Subject: CULTURAL RESOURCE EVALUATION OF PROPOSED  
COAL EXPLORATION DRILL LOCATIONS IN THE  
EAST MOUNTAIN LOCALITY OF EMERY COUNTY, UTAH

Project: Nevada Electric Investment Company/Coal  
Systems, Inc. - 1989 Development Program

Project No.: CSI-89-1

Permit No.: Dept. of Interior -- Ut-88-54937  
Utah State Project No. 89-AF-260f  
U.S. Forest Service Special Use Permit

To: Mr. L.G. Manwaring, President, Coal Systems, Inc., P.O.  
Box 17117, Salt Lake City, Utah 84117

Mr. Dennis J. Schwehr, Nevada Power Company, P.O. Box  
230, Las Vegas, Nevada, 89151

Mr. Ira Hatch, District Ranger, Manti-LaSal  
National Forest, 599 West Price River Drive,  
Price, Utah 84501

Mr. Leon Berggren, Area Manager, Bureau of Land  
Management, P.O. Box AB, Price, Utah 84501

Info: Antiquities Section, Division of State History,  
300 Rio Grande, Salt Lake City, Utah 84101

Mr. Lowell Braxton, Utah State Division of Oil,  
Gas & Mining, 3 Triad Center, Suite 350, Salt  
Lake City, Utah 84180-1203

#### GENERAL INFORMATION:

On May 24, 1989, F.R. Hauck of AERC conducted an intensive cultural resource evaluation of seven proposed coal exploratory drill locations and alternates situated on East Mountain in the Horse Canyon, Blind Canyon, and Crandall Canyon localities, Emery County, Utah. This project was initiated for Coal Systems, Inc. of Salt Lake City and Nevada Electric Investment Company of Las Vegas, Nevada. This project is preliminary to the future expansion of mining operations associated with the Glenwal Coal Mine in Huntington Canyon.

The proposed coal exploration well locations are situated in the following locations:

- No. 1 - SE 1/4, Section 19, Township 15 South, Range 7 East
- No. 2 - SW 1/4, Section 29, Township 15 South, Range 7 East
- No. 3 - NW 1/4, Section 30, Township 15 South, Range 7 East
- No. 4 - NE 1/4, Section 1, Township 16 South, Range 6 East
- No. 5 - NE 1/4, Section 26, Township 15 South, Range 6 East
- No. 5 Alt. - NE 1/4, Section 26, Township 15 South, Range 6 East
- No. 6 - NW 1/4, Section 36, Township 15 South, Range 6 East
- No. 7 - SE 1/4, Section 35, Township 15 South, Range 6 East
- No. 7 Alt. - SE 1/4, Section 36, Township 15 South, Range 6 East

The project location is primarily on U.S. Forest land in the Manti LaSal National Forest. Well locations No. 6 and No. 7 Alternate are on Utah State land.

The project area is situated on a variety of terrain surfaces associated with the upper ridges of East Mountain and the adjacent ridges and canyon slopes associated with the eastern drainages of East Mountain, i.e., Horse Canyon, Blind Canyon, and Crandall Canyon. The elevations of the well locations range between 8400 and 10700 feet above sea level. Existing ground cover in the project area consists of conifer, aspen, and sagebrush communities.

#### FILE SEARCH:

Records searches of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on May 18, 1989. The National Register of Historic Places has been consulted and no registered

historic or prehistoric properties will be affected by the proposed development.

#### FIELD METHODOLOGY:

A series of intensive evaluations were conducted within the project area. These evaluations consisted of 10 to 15 meter wide transects within each flagged well location. At the minimum, the archaeologist examined areas of 30 meter diameter around each proposed well center. The areas of examination increased from 50 to 70 meter diameter searches for Units 3, 4, and 7. No access routes were evaluated since all locations are currently being considered as a helicopter portable drilling program.

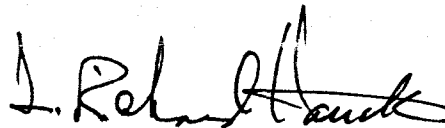
#### RESULTS:

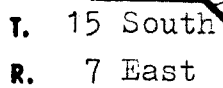
No cultural resource materials or activity loci were observed or recorded during the archaeological evaluations.

#### CONCLUSION AND RECOMMENDATIONS:

AERC recommends that a cultural resource clearance be granted to Coal Systems, Inc. relative to this project based upon adherence to the following stipulations:

1. All vehicular traffic, personnel movement, and operations should be confined to the locations examined as referenced in this report, and to the existing roadways;
2. all personnel should refrain from collecting artifacts and from disturbing any cultural resources in the area; and
3. the authorized official should be consulted should cultural remains from subsurface deposits be exposed during the various project operations or if the need arises to relocate or otherwise alter the location of the exploratory drilling activity.

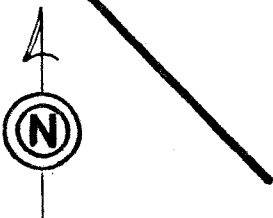
  
F. Richard Hauck, Ph.D.  
President and Principal  
Investigator



**Quad:**

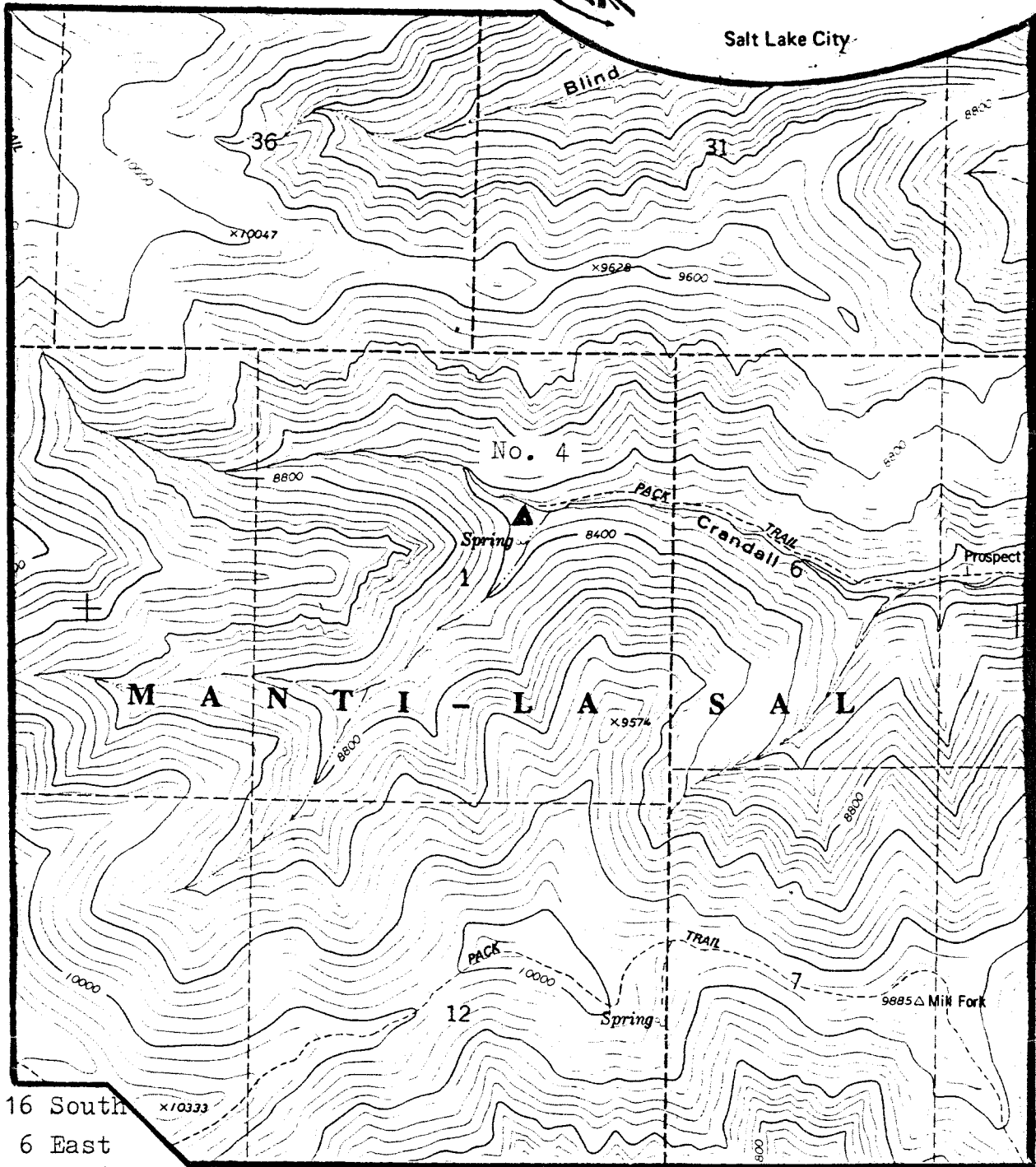
MAP 1  
Cultural Resource Survey  
of Proposed Drilling  
Locations in the Horse  
Canyon Locality

Well Location



### Scale

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T. 16 South  
R. 6 East

Meridian: Salt Lake B. & M.

Quad:

Project: CSI-89-1  
Series: Central Ut.  
Date: 5-26-89

MAP 2  
Cultural Resource Survey  
of a Proposed Drilling  
Location in the Crandall  
Canyon Locality

Rilda Canyon,  
Utah  
7.5 minute-USGS

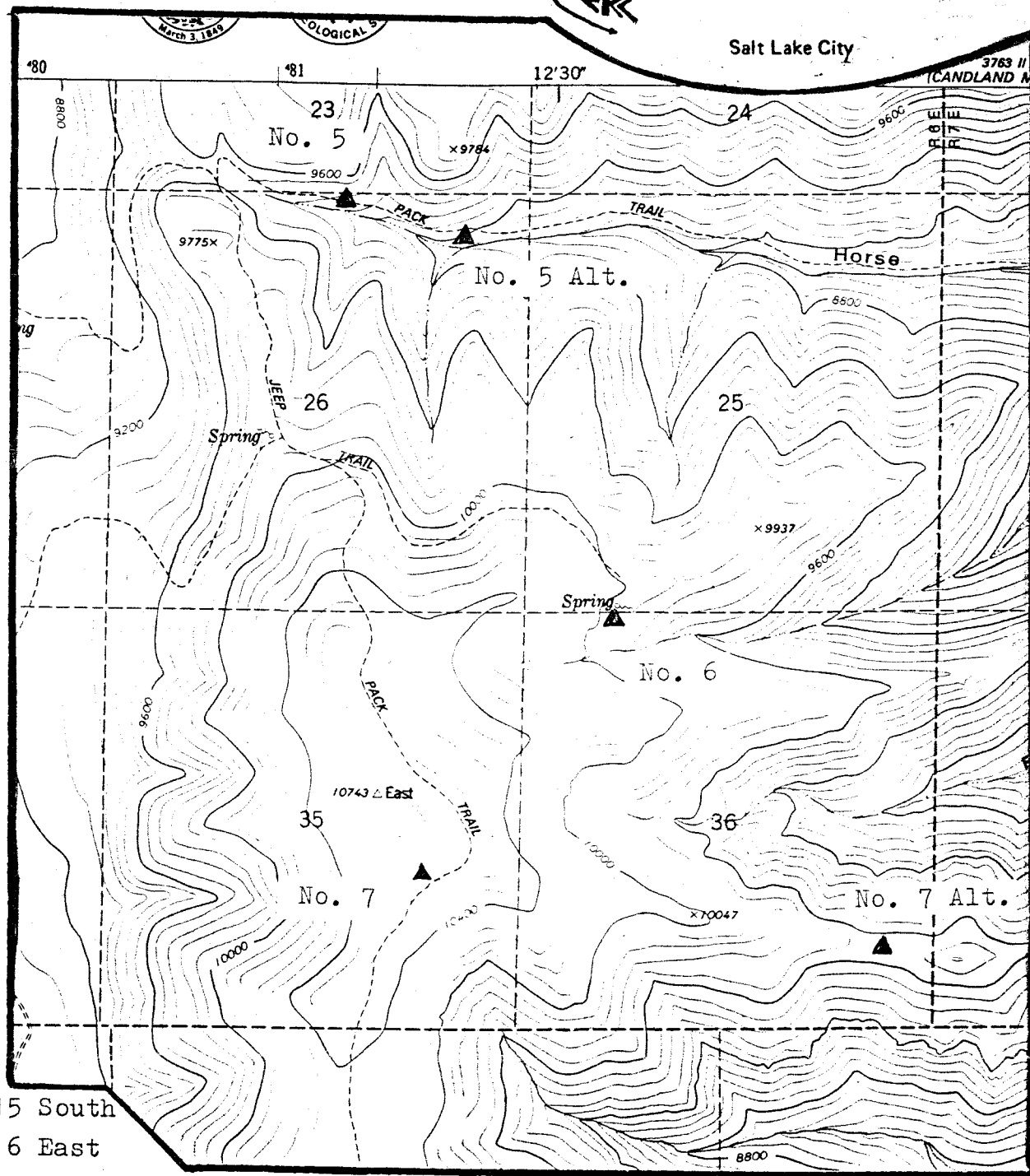


Legend:

Well Location



2.64" = 1 mile  
Scale



T. 15 South  
R. 6 East

Meridian: Salt Lake B. & M.

Quad:

Rilda Canyon,  
Utah

7.5 minute-USGS

Project: CSI-89-1

Series: Central Ut.

Date: 5-26-89

MAP 3

Cultural Resource Survey  
of Proposed Drilling  
Locations on East Mountain  
in Emery County, Utah

Legend:

Well Location



2.64" = 1 mile

Scale